Sandia National Laboratories

POSITION: Digital Forensics R&D **JOB ID:** 639337

MANAGER: Jamie Van Randwyk **LOCATION:** Livermore, CA

Sandia National Laboratories is the nation's premier science and engineering lab for national security and technology innovation. We are a world-class team of scientists, engineers, technologists, postdocs, and visiting researchers—all focused on cutting-edge technology, ranging from homeland defense, global security, biotechnology, and environmental preservation to energy and combustion research, computer security, and nuclear defense. To learn more, visit http://ca.sandia.gov/.

DEPARTMENT DESCRIPTION

The Informatics and Systems Assessments department is focused on applications of interest to national security. We conduct research in information security engineering as well as fundamental computer science and mathematics. The specialties of our technical staff represent a wide range of disciplines including machine learning, linear and multilinear algebra, cloud-based data analysis, binary reverse engineering, network protocol analysis, and botnet/malware analysis and mitigation. Our researchers regularly publish their work in leading journals and conferences. Our work is funded by various U.S. government agencies, including the Department of Energy.

JOB DESCRIPTION

The Informatics and Systems Assessments Department is looking for an individual with a robust systems view of information security. This job has particular focus on research and development of digital forensic techniques. The successful candidate will work individually and on teams to support Sandia customers in cyber analysis, vulnerability assessments, and building security technologies to enhance national security. Job duties included technical work, oral and written reporting, project management, and proposal writing. An intermediate amount of travel is required

QUALIFICATIONS

Required:

1. Ph.D. or MS in Computer Science, Computer Engineering, or other field with a strong relationship to computer & network security
2. Working knowledge of common forensic tools
3. Proficiency in developing tools/techniques for digital forensic purposes
4. C and/or C++ programming experience
5. *NIX (Linux, BSD, etc.) operating system programming skills
6. Ability to think critically, especially as it pertains to conducting vulnerability assessments of software and hardware technologies
7. Demonstrated initiative and the ability to solve problems, prioritize work, and make decisions with little supervision
8. Excellent communication skills, including proposal and technical report writing and formal briefings
9. Ability to work in a collaborative research environment
10. Willingness to travel

Desired:

Expertise in one or more of the following areas is desired:

1. Computer & network security operations
2. Experience in reverse engineering of binary data
3. Python, PHP, and Ruby programming experience
4. Use of virtualization technologies

ABOUT SANDIA

Sandia provides employees with a comprehensive benefits package that includes medical, dental, vision, and a 401(k) with company-match. Our culture values work-life balance; we offer programs such as flexible work schedules with alternate Fridays off, on-site fitness facilities, and three weeks of vacation. In addition, Sandia/California enjoys close proximity to San Francisco, the Silicon Valley, first-tier universities, and diverse cultural and year-round recreational opportunities.

HOW TO APPLY

Go to **http://tinyurl.com/3hgqfcm** for job number 639337.